

### Supply Chains for CCM: Preliminary Baseline Results & Priority SC Intervention Areas







JSI Research & Iraining Institute, Inc.



### SC4CCM Project Goal

SC4CCM will identify, demonstrate, and institutionalize supply chain management practices that improve the availability and use of selected essential health products in community-based programs

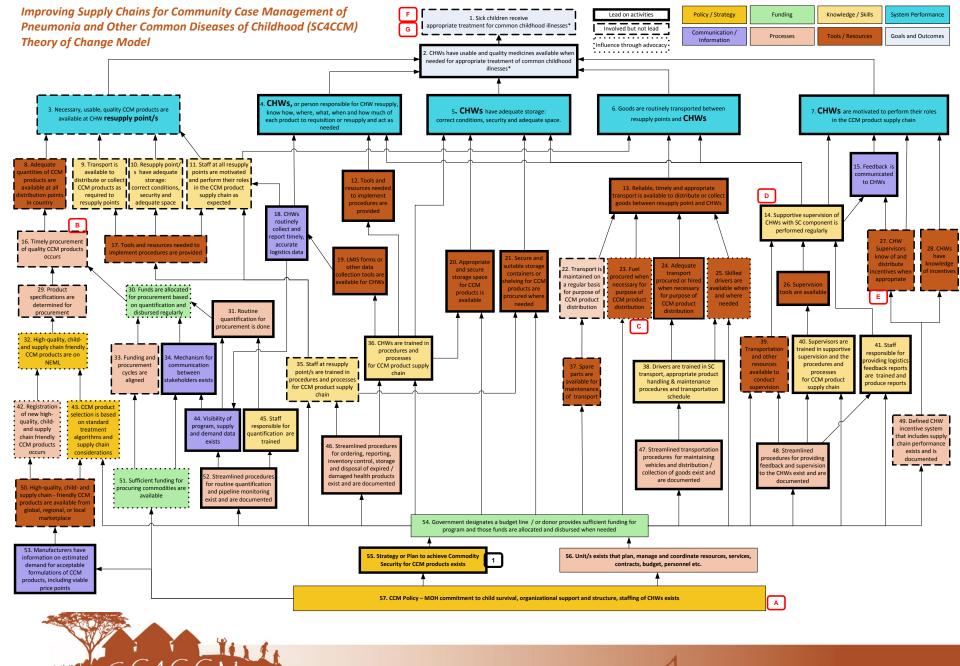
 In partnership with MOH, CCM and supply chain stakeholders in Malawi, Ethiopia and Rwanda





### **Project Objectives**

- Conduct a baseline assessment and develop implementation plan
- Test, identify and implement supply chain interventions
- Collaborate with partners to institutionalize improved supply chain practices
- Ensure capacity to procure quality, affordable CCM products
- Share lessons learned



### SC4CCM Core Indicators



Derived from the main country level objective and immediate preconditions

#### GOAL LEVEL OBJECTIVES

Sick children receive appropriate treatment for common childhood illnesses

Main Country Level Objective: CHWs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses

#### **Precondition 1:**

Necessary, usable, quality CCM products are available at CHW resupply point/s

#### **Precondition 2:**

CHWs, or person responsible for CHW resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

#### Precondition 3: CHWs have

adequate storage: correct conditions, security and adequate space.

#### **Precondition 4:**

Goods are routinely transported between resupply points and **CHWs** 

#### **Precondition 5:**

CHWs are motivated to perform their roles in the CCM product supply chain





# Preliminary Baseline Results: Malawi

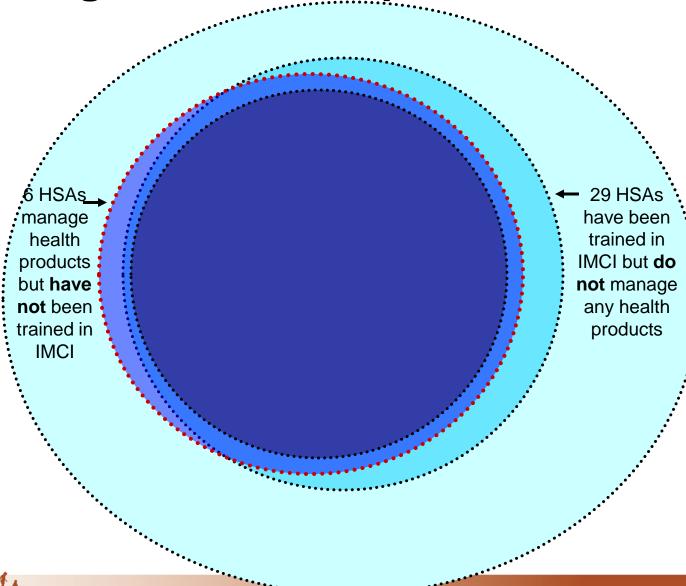




### **Describing the HSA Sample**



- All HSAs interviewed (N=248)
- .... 65% HSAs have received IMCI training (N=162)
- 56% HSAs manage any health products (N=139)
- 54% HSAs are both IMCI trained and manage any health products (N=133)
- 46% HSAs manage all three CCM products (N=114)



# HSAs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses

Of the HSAs who manage health products 27% had the 4 tracer drugs\* in stock, 35% had the 3 tracer drugs\*\* in stock on the day of visit

Only about 1/3 of HSAs had the health products needed to treat all 3 common childhood illnesses (pneumonia, diarrhea, and malaria) meant to be treated under the current CCM program on the day of visit



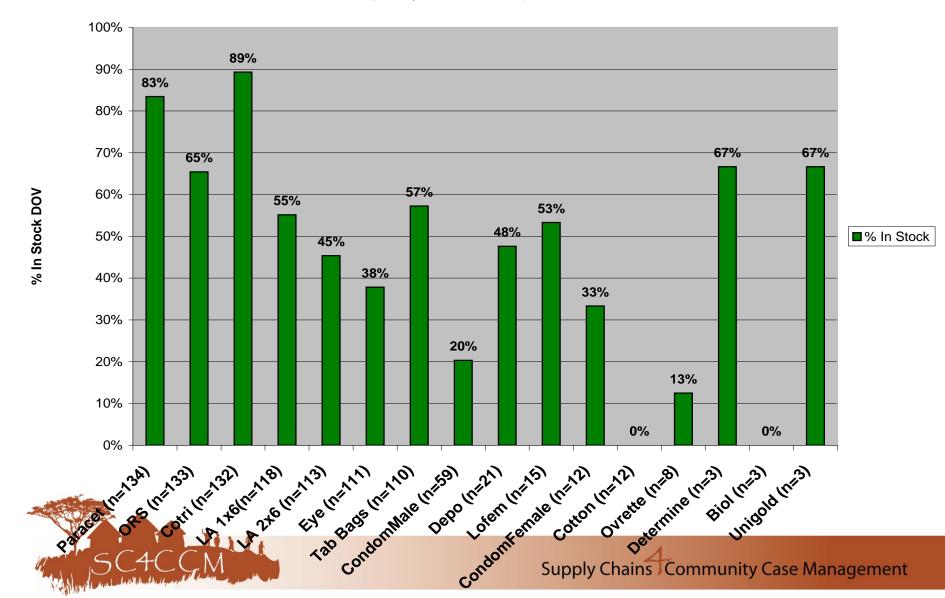
<sup>\*</sup>cotrimoxazole, LA 1x6, LA 2x6, ORS

<sup>\*\*</sup> cotrimoxazole, LA1x6 and/or LA2x6, ORS

#### % HSAs with Products In Stock



(Day of Visit)





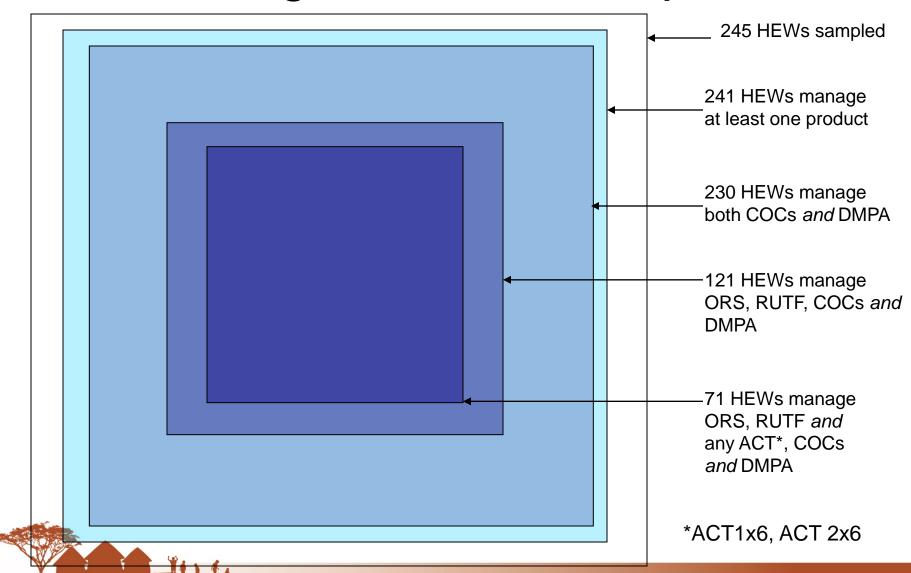
# Preliminary Baseline Results: Ethiopia





### Describing the HEW Sample







### **Main Country Level Objective:**

HEWs have usable and quality medicines available when needed for appropriate treatment of common childhood illnesses



#### FP better established and better supplied



#### **ACT** is a limiting factor for product availability

49 of 121 **(41%)** HPs who manage ORS, RUTF, COCs *and* DMPA have

stock

all in stock

14 of 71 **(20%)** HPs with ORS, RUTF,

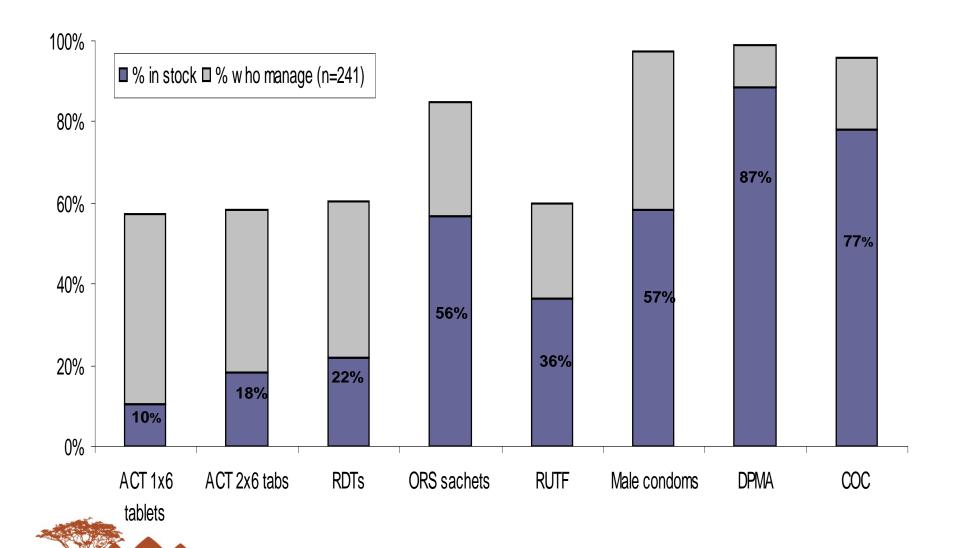
COCs, DMPA and any ACT have them all in

171 of 230 (74%) HPs manage both COCs and DMPA and have all in stock



### Stock on DOV at HP by Product







# Analysis of Product Availability Results by Precondition

### Malawi & Ethiopia







PRECONDITION 1: Necessary, usable, quality CCM products are available at CHW resupply point/s

Product availability at the resupply point appears to be strongly linked to product availability at the CHW, but there is much variability by district (Malawi) and region and product (Ethiopia)



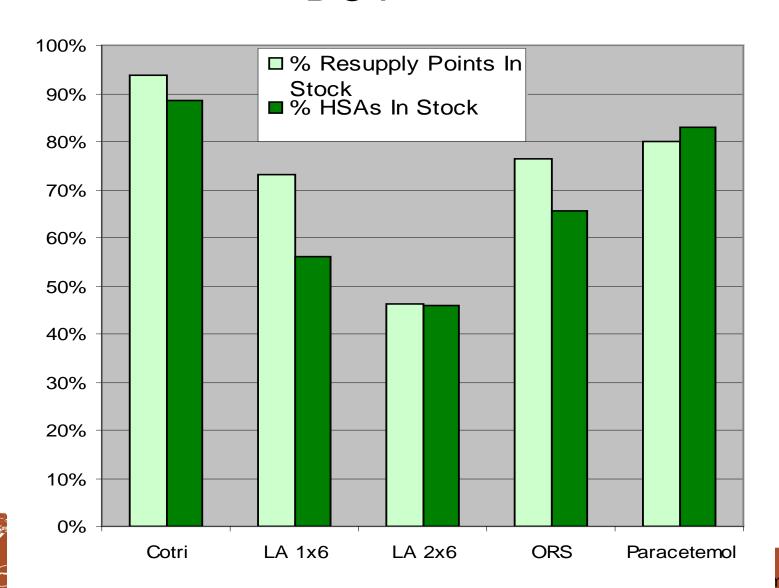
### Malawi Product Availability at all Levels (Day of Visit)

RMS (3 total) 33% had all three Resupply points also key products have challenges maintaining sufficient 10 Districts stock of the three tracer products on the **Resupply Points\*** day of visit (~8 per District, 81 total) 47% had all three key Resupply points were products better stocked than **HSA HSAs** (~3 per HC, 248 total)

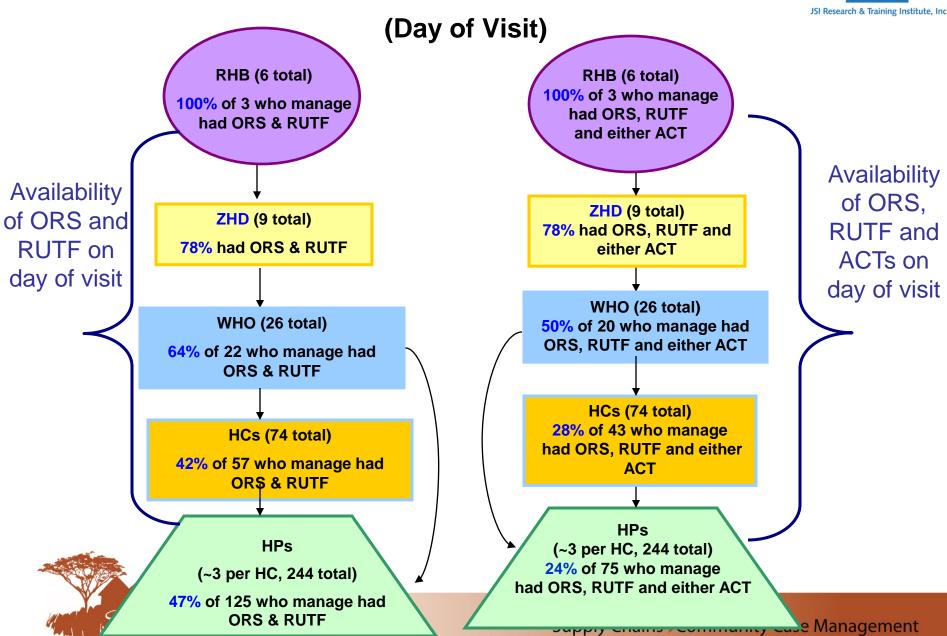
35% had all three key products

\* Note: Resupply point includes health centers and district hospitals

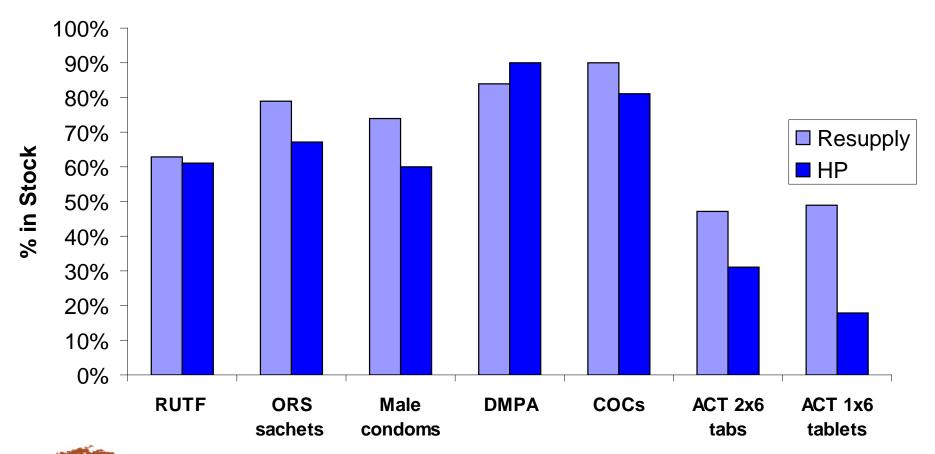
## Malawi % Resupply Points & HSAs In Stock DOV



### Ethiopia Product Availability at All Levels



# Ethiopia % of Resupply Points and HPS in Stock on DOV





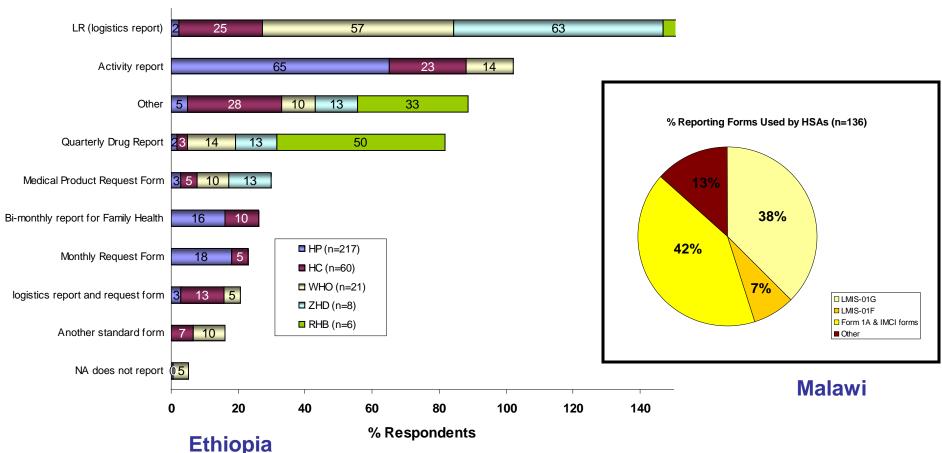
PRECONDITION 2: CHWs, or person responsible for CHW resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

## Formal SC training did not appear to be a strong driver of product availability

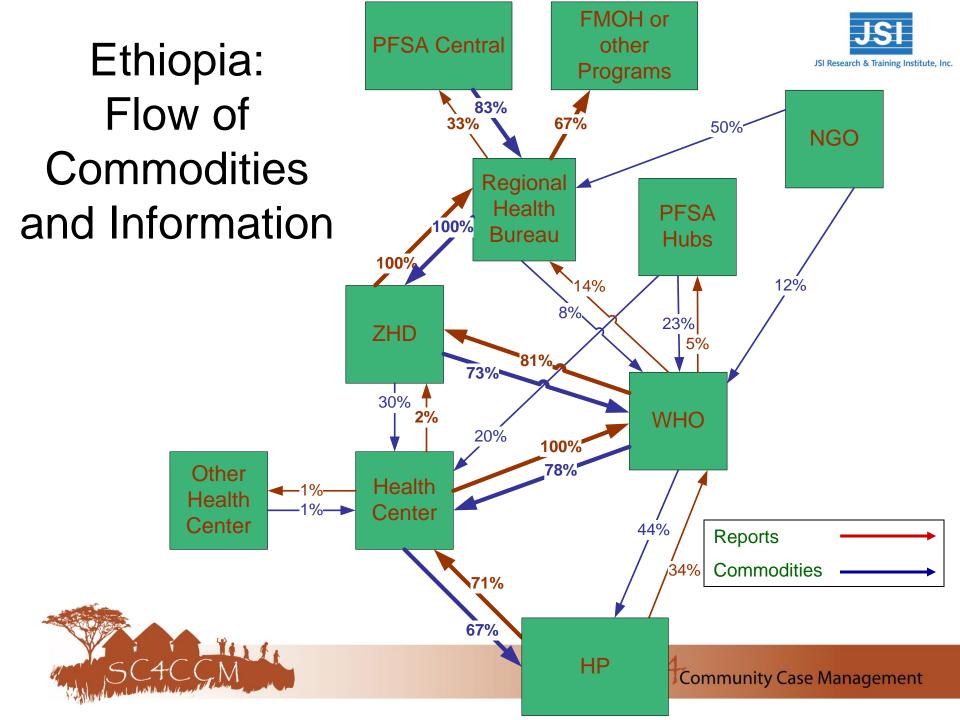
- Training reflected the maturity of the CHW program
  - Relatively high numbers HSAs (59%) and resupply personnel (~75%) trained in SC in Malawi
  - Relatively low numbers HEWs (11%) and resupply personnel (8%) trained in SC in Ethiopia
- OJT was cited as a significant means of HEWs learning SC reporting forms in Ethiopia



### Use of standardized forms can still be improved in both countries, especially Ethiopia







PRECONDITION 3: CHWs have adequate storage: correct conditions, security and adequate space

## Storage did not appear to be a strong driver of product availability

- HSAs on average score high on storage conditions (mean=6 conditions), although scores drop as the number of products an HSA manages increases
- HEWs on average score low on storage conditions, with the majority fulfilling 3 conditions



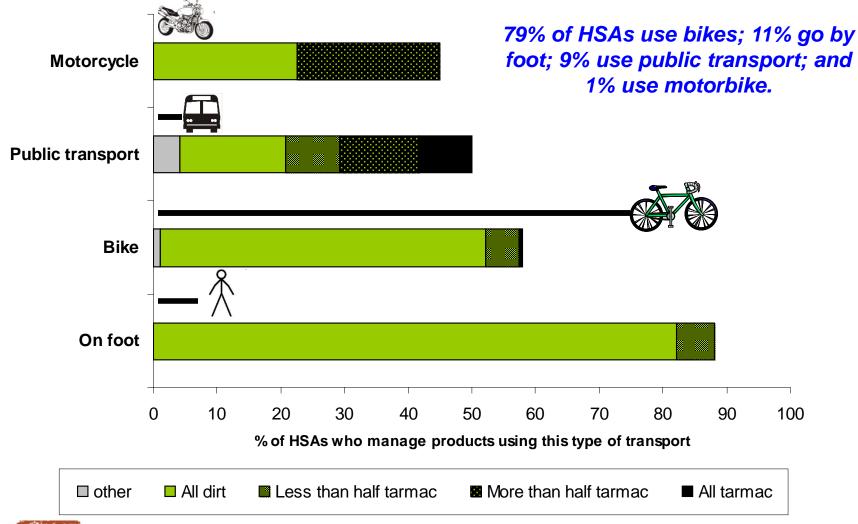
## PRECONDITION 4: Goods are routinely transported between resupply points and CHWs

### Transport is a challenge for CHWs

- On average HSAs are about an hour by car and majority HEWs are about 30 mins by car away from their resupply point
- In Malawi, 76 out of 139 HSAs report having problems collecting/receiving, with majority citing either resupply point stockouts and transport as their greatest challenges
- In Ethiopia, 80 of 121 HEWs who reported having problems collecting/receiving, cited lack of transport as the major constraint



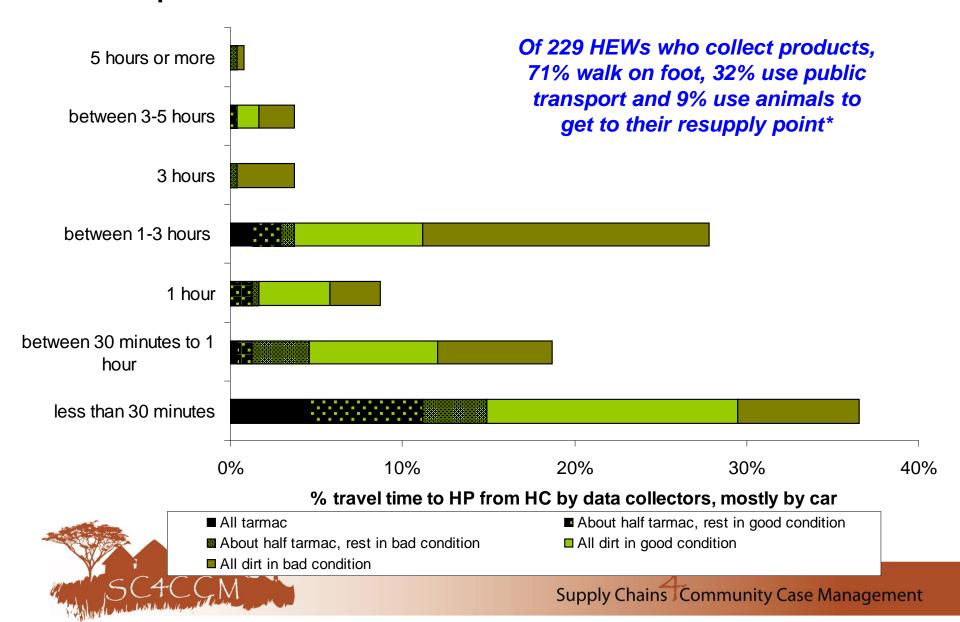
### Malawi Transport, Travel Time, Road Condition



\*Length of bar indicates the distance an HSA has to travel to get to health center by car in minutes.

### Ethiopia Travel Time and Road Condition Condit



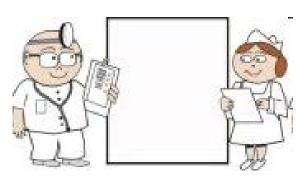




# PRECONDITION 5: CHWs are motivated to perform their roles in the CCM supply chain

 Most CHWs reported receiving supervision that includes some SCM on a regular basis

**96%** supervisors reported providing supervision to HSAs every 3 months



**96%** supervisors reported providing supervision to HEWs every month



**84%** HSAs reported receiving a supervisory visit in last 3 months



Ethiopia

Last month

**81%** HEWs reported receiving a supervisory visit in last month

Supply Chains Community Case Management

# Malawi Access to Communication Technology: Resupply Points and HSAs





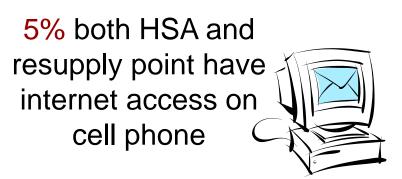
89% of HSAs who manage health products and their resupply point BOTH have mobile phones





12% both HSA and resupply point have network coverage at work all the time, 67% at least sometimes









# Ethiopia Access to Communication Technology: HEWs

Cell phones are widely (89%) available at HEW level

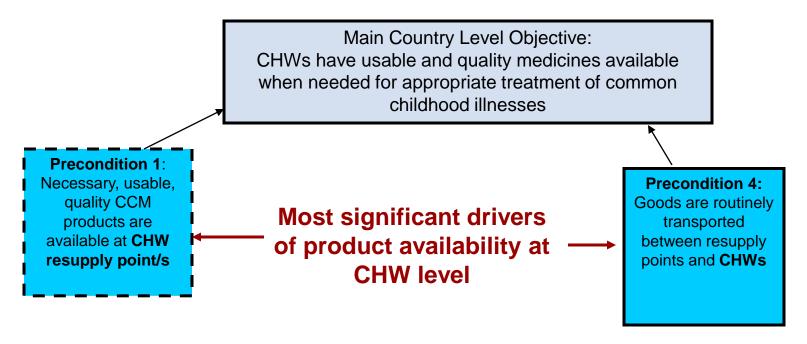
#### however...

- only 38% of HEWs have adequate network coverage
- only 23% of HEWs have a source to recharge their phones



### **Preliminary Conclusions**





#### **Precondition 2:**

CHWs, or person responsible for CHW resupply, know how, where, what, when and how much of each product to requisition or resupply and act as needed

In Malawi, SC training appears to be necessary but not sufficient to significantly improve product availability

CHWs receive
frequent supervision
in both countries,
but content and
quality of
supervision can be
improved to target
SC problems

Precondition 5: CHWs are motivated to perform their roles in the CCM product supply chain

# General Hypothesis Guiding Selection of Interventions

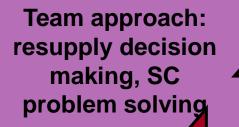
Current supply chain practices at CHW level are often an extension of the facility model, and innovative supply chain solutions that target the unique challenges of CHW need to be identified to significantly improve product availability





Improving Product Availability at Resupply Point: Augusticut





data
visibility,
enhance SC
decisions

**Improving** 

Customer service oriented supply chains

Common vision for sense of urgency/ priority around CHW product availability

Formal recognition, incentive system to drive SC performance

### Simple solutions

Reinforce roles, relationships

2 bin ICS

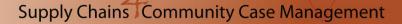
Higher min, resupply less often

Stock balance data only

EOP so CHW can initiate action

SMS for better communication, routine reporting

Public recognition CHWs, districts



## Improving Product Availability at Resupply Point: Assume Transport Intervention

- Vouchers
  - Quarterly vouchers for bike maintenance



- Delivery to CHWs
  - Direct delivery with motorcycles from resupply points



- Outsourcing to third party to deliver to CHWs on a regular basis
- Partnering with other supply chains to supply CHWs when emergency supplies needed
- Contingency plans for rainy season
  - increase stock levels just before rainy season
- Reduce transport burden increase reorder period
  - If storage readily available, decrease to every other month resupply to reduce need for transport





### Thank You





